



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Samuel Gary Jr. & Associates

26/5n/37w Cheyenne KS

1515 Wynkoop St. STE 700
Denver, CO 80202

A. B. Fisher #1-26

Job Ticket: 60850

DST#: 2

ATTN: Clayton Camozzi

Test Start: 2015.01.27 @ 21:45:00

GENERAL INFORMATION:

Formation: **Penn Sand #1**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:16:00

Time Test Ended: 05:57:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 83

Interval: 4624.00 ft (KB) To 4668.00 ft (KB) (TVD)

Reference Elevations: 3259.00 ft (KB)

Total Depth: 4668.00 ft (KB) (TVD)

3254.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8791

Inside

Press@RunDepth: 144.31 psig @ 4625.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.27

End Date:

2015.01.28

Last Calib.:

2015.01.28

Start Time: 21:45:05

End Time:

05:56:59

Time On Btm:

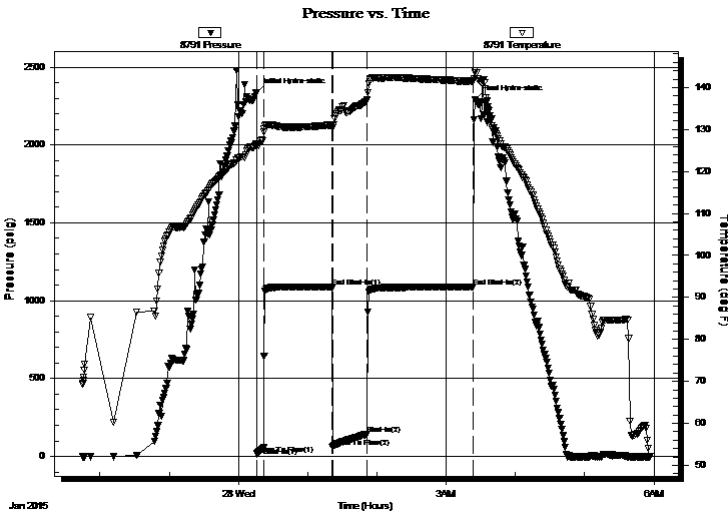
2015.01.28 @ 00:15:45

Time Off Btm:

2015.01.28 @ 03:25:00

TEST COMMENT: 5 - IF: Blow built to 3"
60 - ISI: No blow back
30 - FF: Blow built to BOB (11") at 28 1/2 min.
90 - FSI: No blow back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2335.48 | 126.60 | Initial Hydro-static |
| 1 | 16.60 | 125.84 | Open To Flow (1) |
| 7 | 55.25 | 129.33 | Shut-In(1) |
| 66 | 1088.72 | 131.07 | End Shut-In(1) |
| 66 | 57.66 | 130.50 | Open To Flow (2) |
| 96 | 144.31 | 137.02 | Shut-In(2) |
| 188 | 1087.35 | 141.53 | End Shut-In(2) |
| 190 | 2291.63 | 143.50 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 60.00 | SWCM 97% m, 3% w | 0.30 |
| 220.00 | Mud 100% | 2.53 |
| 0.00 | Oil spots in tool | 0.00 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---|----------------|
| 60.00 | SWCM 97% _m , 3% _w | 0.295 |
| 220.00 | Mud 100% | 2.530 |
| 0.00 | Oil spots in tool | 0.000 |

Total Length: 280.00 ft Total Volume: 2.825 bbl

Num Fluid Samples: 0

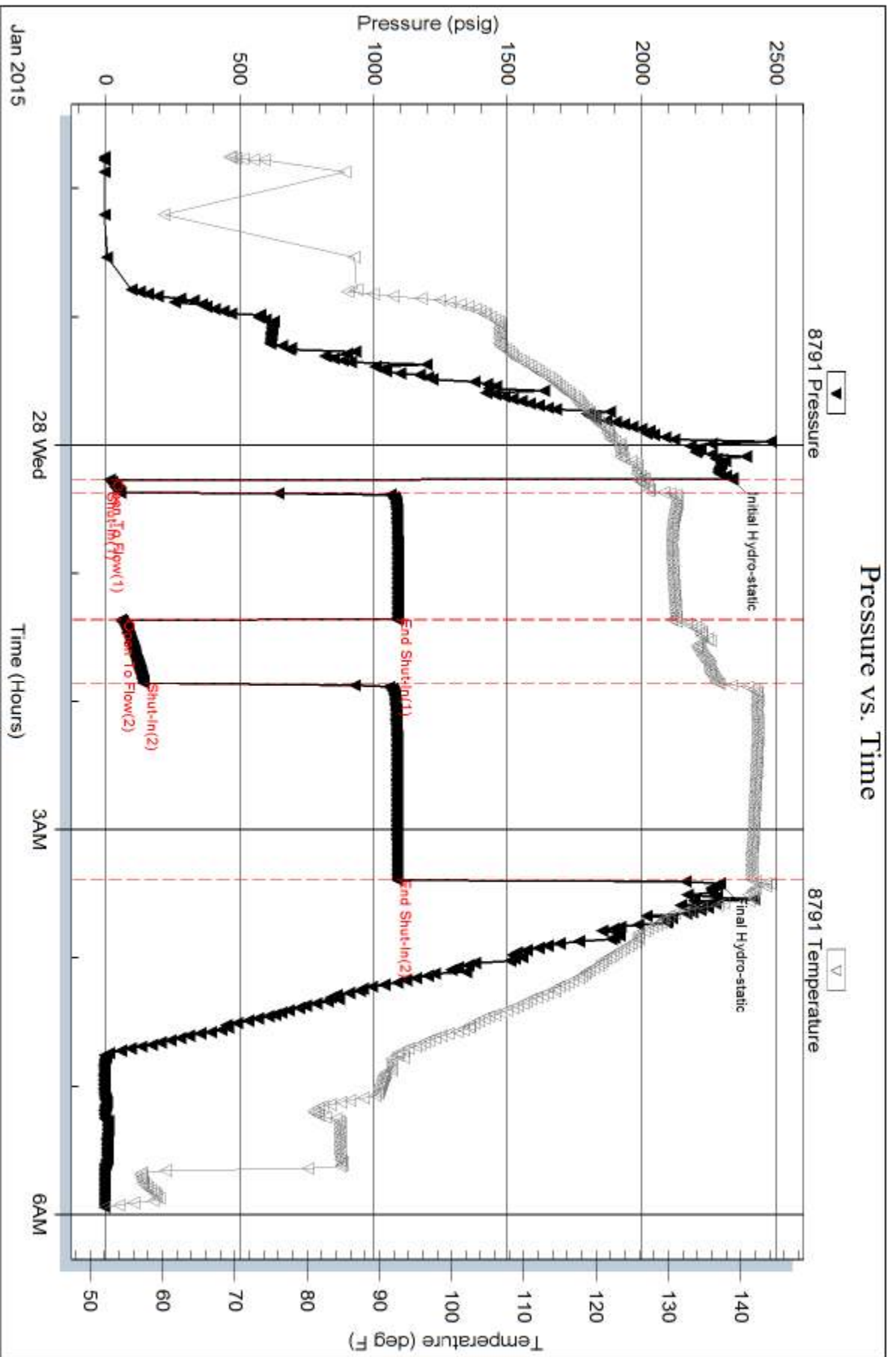
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 8366

Fluid

Samuel Gary J. & Associates

A. B. Fisher #1-26

DST Test Number: 2

